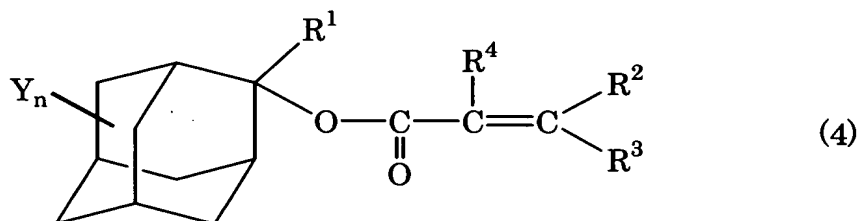


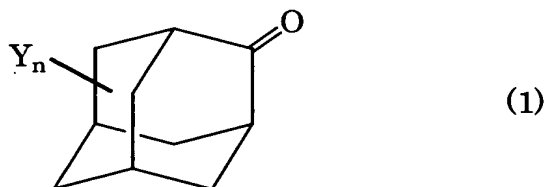
WHAT IS CLAIMED IS:

1. A method for producing an adamantyl acrylate compound represented by the following formula (4):



5 wherein Y is hydrogen atom or alkyl group; R¹ is hydrocarbyl group; each of R² to R⁴ is independently hydrogen atom, alkyl group, halogen atom or haloalkyl group; and n is an integer of 1 to 14,

the method comprising a first step of reacting a 2-adamantanone compound represented by the following formula (1):



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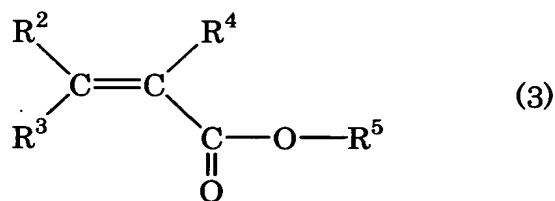
wherein Y and n are the same as defined above,

with an alkyl halide represented by the following formula (2):



wherein R¹ is the same as defined above and X is halogen atom,

15 in the presence of lithium metal; and a second step of further continuing the reaction after adding an acrylic ester compound into a reaction system, the acrylic ester compound being represented by the following formula (3):



wherein R² to R⁴ are the same as defined above and R⁵ is alkyl group.

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2. The method according to Claim 1, wherein the second step is

conducted in the presence of a polymerization inhibitor.

3. The method according to Claim 2, wherein the polymerization inhibitor has a nitroso group.

4. The method according to Claim 3, wherein the polymerization
5 inhibitor having a nitroso group is at least one compound selected from the group consisting of 2,2,6,6-tetramethyl-4-hydroxypiperidine-1-oxyl, N-nitrosophenyl hydroxylamine ammonium salt, N-nitrosophenyl hydroxylamine aluminum salt, N-nitroso-N-(1-naphthyl)hydroxylamine ammonium salt, N-nitrosodiphenylamine and N-nitroso-N-methylaniline.

10 5. The method according to Claim 2, wherein the polymerization inhibitor is used in an amount of 0.00001 to 0.1 part by weight per one part by weight of the acrylic ester compound of the formula (3).

6. The method according to Claim 1, wherein the 2-adamantanone compound of the formula (1) is 2-adamantanone.

15 7. The method according to Claim 1, wherein a particle size of lithium metal is 1000 μm or less.